

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 12TH APRIL to 14TH APRIL'2016



IMD, GANGTOK IN COLLABORATION WITH ICAR, GANGTOK, FSAD AND HCCD, GANGTOK





ISSUED ON TUESDAY 12TH APRIL'2016

Meteorological Sub-division of Sikkim

As per India Meteorological Department's classification, Sikkim is a part of Met Sub-Division of Sub Himalayan West Bengal & Sikkim (SHWB & SKM) and is divided into four (4) Districts:

- 1) North District with HQ at Mangan
- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

	Mangan (PTO)				North Sikkim Forecast							
Rainfall	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5			
Date		(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy				
8-4-2016	000	25.1	10.8	Rainfall	Light	Very Light	Moderate	Moderate	Light			
9-4-2016	060	25.2	10.6	Wind (Speed/ Dir)	5Km/Hr (S)	3Km/Hr (S)	5Km/Hr (W)	2Km/Hr (SW)	3Km/Hr (SSW)			
10-4-2016	000	25.4	10.7	Temperature (Min-Max)	17 - 26°C	16 - 25°C	15 - 24°C	15 - 24°C	16 - 25°C			
11-4-2016	000	25.3	10.6	RH (Min-Max)	68 - 88%	65 - 85%	72 - 92%	70 - 90%	65 - 85%			

Gangtok			East Sikkim Forecast							
Data	Rainfall M		Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
8-4-2016	003	23.7	14.5	Rainfall	Very Light	Very Light	Light	Light	Very Light	
9-4-2016	005	23.8	14.2	Wind (Speed/ Dir)	2Km/Hr (E)	2Km/Hr (E)	3Km/Hr (ESE)	3Km/Hr (SSE)	4Km/Hr (SE)	
10-4-2016	000	23.0	14.8	Temperature (Min-Max)	15 - 24°C	15 - 22°C	14 - 22°C	14 - 23°C	14 - 23°C	
11-4-2016	000	22.6	14.8	RH (Min-Max)	65 - 85%	65 - 85%	70 - 90%	70 - 90%	65 - 85%	

Namthang			South Sikkim Forecast							
Data	Rainfall Max. Temp		Min. Temp	Day → Parameter↓	Day 1 Day 2		Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	
8-4-2016	000	28.0	16.5	Rainfall	No rain	No rain	Very Light	Very Light	No rain	
9-4-2016	000	26.5	15.5	Wind (Speed/ Dir)	3Km/Hr (ESE)	3Km/Hr (ESE)	3Km/Hr (SSE)	2Km/Hr (SSE)	2Km/Hr (SSE)	
10-4-2016	000	27.5	16.5	Temperature (Min-Max)	17 - 27°C	17 - 26°C	16 - 25°C	15 - 25°C	16 - 26°C	
11-4-2016	000	26.5	18.0	RH (Min-Max)	55 - 75%	60 - 80%	65 - 85%	70 - 90%	60 - 80%	

Gyalshing (AWS)				West Sikkim Forecast							
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy		
8-4-2016	000	25.8	13.6	Rainfall	Very Light	Very Light	Light	Very Light	Light		
9-4-2016	000	26.0	13.5	Wind (Speed/ Dir)	3Km/Hr (E)	3Km/Hr (E)	4Km/Hr (SSE)	3Km/Hr (SE)	4Km/Hr (SE)		
10-4-2016	N/A	N/A	N/A	Temperature (Min-Max)	15 - 25°C	15 - 24°C	14 - 23°C	13 - 23°C	14 - 24°C		
11-4-2016	000	24.1	14.3	RH (Min-Max)	65 - 85%	68 - 88%	70 - 92%	70 - 88%	65 - 85%		

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- **Vermicompost** pits should be covered with gunny bags / paddy straw/ dry forest litter to regulate the temperature.
- Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- FMD Vaccination is strongly recommended for all livestock. Farmers may please contact nearest veterinary hospital/institution/V.O. for the vaccination
- De-worming with Fenbendazole @ 10 mg / kg body weight.
- Protect animals from cold by providing protective cover/ house and light.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Land preparation / sowing	Cut worm/ Army worm	 Apply well decomposed FYM @ 2.5 t/ha + mixed compost 2.5 t/ha + 0.5 t/ha neem cake and mix properly with soil 7-10 days before sowing. Apply dolomite @ 200 kg/ha in furrow before sowing. Seeds should be sown at 50 cm row to row and 20 cm plant to plant spacing, respectively. Take protection measure to save maize seedlings from birds. One hand weeding should be done after 20 days of sowing. Regular monitoring for insect-pest and collection and destruction should be done. Application of mixture of cow urine + water + neem oil (2 litre + 8 litre + 50 ml) @ 100 ml/plant for management of cut worm. For management of Army worm spray spinosad @ 0.3 ml/litre. Proper drainage should be ensured.

Tomato	Transplanting/ vegetative growth	 	Transplanting should be done under protected condition in small pits either in green house or rain shelter, if no option then in open condition. Well decomposed FYM along with vermicompost should be added in pits
Dad abovey	Trongalonting/	**	Spray COC @ 0.25% at 7-10 days interval for management of late blight. Proper drainage should be ensured. Transplanting should be done in
Red cherry pepper	Transplanting/ vegetative growth		small pits either in rain shelter or in open condition. Well decomposed FYM @ 0.5 kg along with 50-100 g vermicompost
		•	should be added in pits Spray COC @ 0.25% at 7-10 days interval for management of damping off.
		 	Apply <i>Trichoderma harzianum</i> @ 2.5 kg/50 kg of well decomposed FYM before planting Proper drainage should be ensured.
Okra	Nursery raising/		Prepare 4 inch raised bed of 1 m x 5
Cucurbitaceous	Sowing		m size for nursery raising.
crops		*	Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 2% <i>Trichoderma viride</i> for management of soil borne diseases.
			Seed should be sown in line 4-5 cm
			apart at shallow depth 1-2 cm.
		•	Light irrigation should be provided immediately after seed sowing with rose can.
		\	Proper moisture should be maintained in nursery beds for better
		\	germination. If directly sowing in the well prepared field proper drainage should be ensured
Large	Flowering	\langle	Regular monitoring for pest and
cardamom		\Pi	disease incidence. Shade management with the proper
			lopping of trees.

Ginger	Planting		Healthy rhizomes for planting material should be kept in partial shade for better sprouting. Forest litter should be collected well in advance as mulching material. Apply well decomposed FYM @ 20-25 t/ha + 1.0 t/ha neem cake and mix properly with soil 7-10 days before sowing. Broadcast dolomite @ 2 t/ha 7-10 days before sowing and mix properly with soil.
Sikkim	Flowering/ Fruit		Tree trunk should be painted with 1%
Mandarin	set		Bordeaux mixture.
			Plant basin should be kept weed free.
			Proper drainage should be ensured.
Kiwi fruit	Vegetative		If possible kiwi fruit vine should be
	growth/		covered with 50% shade net to protect
	Flowering		flowers from heavy rain and hail storm
			Plant basin should be kept weed free.
			Proper drainage should be ensured.
Animal Sciences			
Tibetan Sheep		•	Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended.
Yak		•	Feeding of concentrate feed along with mineral mixture and salt.
			Hay feeding is recommended.
		*	Trimming of hair is recommended.
Cattle, Sheep		•	
and Goat			sign especially during early morning or late evening and ensure breeding of the dairy cattle after 12 hr of observation of heat.
			Breeding of the sheep/goat should be done after 24-30 hr of observation of heat.
		•	Feeding of concentrate feed along with jaggery, mineral mixture and salt.
			Sait.

Cattle				Balanced feeding of dairy animals and allow calf suckling immediately after parturition. Full hand milking should be practiced. Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week. Afterwards complete milking in a day is recommended.
Poultry		Coccidiosis, Ranikhet disease	 	should be provided to adult birds for optimum egg production. Frequent raking and liming of deep litter materials. Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis. Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. Ranikhet vaccination at 5 th day and at 30 th day of age. Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production. Spraying of ectoparasiticides <i>viz.</i> , deltamethrin/cypermethrin @ 1% v/v in water.
Pig	All stages	Swine fever		Keep floor dry to avoid skin diseases. Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigeneous pigs. Swine fever vaccine at the age of 8-10 week is recommended. Critical heat detection in early morning and late evening is recommended. Feed 5-10% green fodder of their diet.